

LISTA DE SECUENCIAS

- <110> SPARK THERAPEUTICS, INC.
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 NORDIN, Jayme
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- <150> 62/672,419
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- <150> 62/734,454
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Pro Leu Glu Thr Pro His Val His Ser Arg Ala Pro Ser Pro Leu Tyr
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Ser Val Glu Phe Ser Glu Glu Pro Phe Gly Val Ile Val Arg Arg Gln
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 agatctagag ctgaattcct gcagccaggg ggatcagcct ctactgtgcc ttctagttgc 60
 cagccatctg ttgtttgccc ctcccccttg ccttccttga ccctggaagg tgccactccc 120
 actgtccttt cctaataaaa tgaggaaatt gcatcacatt gtctgagtag gtgtcattct 180
 attctggggg gtgggggtggg gcaggacagc aagggggagg attgggaaga caatagcagg 240
 catgctgggg atgcagtggg ctctatgg 268

<210> 27
 <211> 202
 <212> ADN
 <213> Bos taurus

<400> 27
 agatctaccg gtgaattcac cgcggtttaa aactgtgcct tctagttgcc agccatctgt 60
 tgtttgcccc tccccgtgc cttccttgac cctggaaggt gccactccca ctgtcctttc 120
 ctaataaaat gaggaaattg catcgcattg tctgagtagg tgtcattcta ttctgggggg 180
 tgggggtgggg gctagctcta ga 202

<210> 28
 <211> 456

<212> ADN
<213> Homo sapiens

<400> 28
gggcccacatgc cacctccaac atccactcga ccccttggaa tttcgggtgga gaggagcaga 60
ggttgctcctg gcgtggttta ggtagtgtga gaggggtacc cggggatcctt gctaccagtg 120
gaacagccac taaggattct gcagtgagag cagagggcca gctaagtggg actctcccag 180
agactgtctg actcacgcca cccctccac cttggacaca ggacgctgtg gtttctgagc 240
caggtacaat gactcctttc ggtaagtga gtggaagctg tacactgccc aggcaaagcg 300
tccgggcagc gtaggcgggc gactcagatc ccagccagtg gacttagccc ctgtttgctc 360
ctccgataac tggggtgacc ttgggtaata ttcaccagca gcctcccccg ttgcccctct 420
ggatccactg cttaaatacg gacgaggaca gggccc 456

<210> 29
<211> 444
<212> ADN
<213> Homo sapiens

<400> 29
atgccacctc caacatccac tcgaccctt ggaatttcgg tggagaggag cagaggttgt 60
cctggcgtgg tttaggtagt gtgagagggg taccgggga tcttgctacc agtggaacag 120
ccactaagga ttctgcagtg agagcagagg gccagctaag tgggtactctc ccagagactg 180
tctgactcac gccacccct ccaccttga cacaggacgc tgtggtttct gagccaggta 240
caatgactcc tttcggtaag tgcagtggaa gctgtacact gccaggcaa agcgtccggg 300
cagcgtaggc gggcgactca gatcccagcc agtggactta gcccctgttt gtcctccga 360
taactggggg gaccttggtt aatattcacc agcagcctcc cccgttgccc ctctggatcc 420
actgcttaaa tacggacgag gaca 444

<210> 30
<211> 738
<212> PRT
<213> Secuencia Artificial

<220>

<223> Cápside del vector de AAV

<400> 30

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Asp Leu Lys Pro Gly Ala Pro Lys Pro
20 25 30

Lys Ala Asn Gln Gln Lys Gln Asp Asn Gly Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Phe Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Gln Ala Gly Asp Asn Pro Tyr Leu Arg Tyr Asn His Ala
85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Gln Glu Asp Thr Ser Phe Gly Gly
100 105 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Val Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Ser Pro Val Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Glu Pro Ser Pro Gln Arg Ser Pro Asp Ser Ser Thr Gly Ile
145 150 155 160

Gly Lys Lys Gly Gln Gln Pro Ala Lys Lys Arg Leu Asn Phe Gly Gln
165 170 175

Thr Gly Asp Ser Glu Ser Val Pro Asp Pro Gln Pro Ile Gly Glu Pro
180 185 190

Pro Ala Ala Pro Ser Gly Val Gly Pro Asn Thr Met Ala Ala Gly Gly
195 200 205

Gly Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Ser
210 215 220

Ser Ser Gly Asn Trp His Cys Asp Ser Thr Trp Leu Gly Asp Arg Val
225 230 235 240

Ile Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His
245 250 255

Leu Tyr Lys Gln Ile Ser Asn Gly Thr Ser Gly Gly Ser Thr Asn Asp
260 265 270

Asn Thr Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn
275 280 285

Arg Phe His Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn
290 295 300

Asn Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn
305 310 315 320

Ile Gln Val Lys Glu Val Thr Gln Asn Glu Gly Thr Lys Thr Ile Ala
325 330 335

Asn Asn Leu Thr Ser Thr Ile Gln Val Phe Thr Asp Ser Glu Tyr Gln
340 345 350

Leu Pro Tyr Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe
355 360 365

Pro Ala Asp Val Phe Met Ile Pro Gln Tyr Gly Tyr Leu Thr Leu Asn
370 375 380

Asn Gly Ser Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr
385 390 395 400

Phe Pro Ser Gln Met Leu Arg Thr Gly Asn Asn Phe Glu Phe Ser Tyr
405 410 415

Asn Phe Glu Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser
420 425 430

Leu Asp Arg Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu
435 440 445

Ser Arg Thr Gln Ser Thr Gly Gly Thr Ala Gly Thr Gln Gln Leu Leu
450 455 460

Phe Ser Gln Ala Gly Pro Asn Asn Met Ser Ala Gln Ala Lys Asn Trp
465 470 475 480

Leu Pro Gly Pro Cys Tyr Arg Gln Gln Arg Val Ser Thr Thr Leu Ser
485 490 495

Gln Asn Asn Asn Ser Asn Phe Ala Trp Thr Gly Ala Thr Lys Tyr His
500 505 510

Leu Asn Gly Arg Asp Ser Leu Val Asn Pro Gly Val Ala Met Ala Thr
515 520 525

His Lys Asp Asp Glu Glu Arg Phe Phe Pro Ser Ser Gly Val Leu Met
530 535 540

Phe Gly Lys Gln Gly Ala Gly Lys Asp Asn Val Asp Tyr Ser Ser Val
545 550 555 560

Met Leu Thr Ser Glu Glu Glu Ile Lys Thr Thr Asn Pro Val Ala Thr
565 570 575

Glu Gln Tyr Gly Val Val Ala Asp Asn Leu Gln Gln Gln Asn Ala Ala
580 585 590

Pro Ile Val Gly Ala Val Asn Ser Gln Gly Ala Leu Pro Gly Met Val
595 600 605

Trp Gln Asn Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile
610 615 620

Pro His Thr Asp Gly Asn Phe His Pro Ser Pro Leu Met Gly Gly Phe
625 630 635 640

Gly Leu Lys His Pro Pro Pro Gln Ile Leu Ile Lys Asn Thr Pro Val
645 650 655

Pro Ala Asp Pro Pro Thr Thr Phe Asn Gln Ala Lys Leu Ala Ser Phe
660 665 670

Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu
675 680 685

Leu Gln Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr
690 695 700

Ser Asn Tyr Tyr Lys Ser Thr Asn Val Asp Phe Ala Val Asn Thr Glu
705 710 715 720

Gly Thr Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg
725 730 735

Asn Leu

<210> 31

<211> 601

<212> PRT

<213> Secuencia Artificial

<220>

<223> Cápside del vector de AAV

<400> 31

Thr Ala Pro Gly Lys Lys Arg Pro Val Glu Pro Ser Pro Gln Arg Ser
1 5 10 15

Pro Asp Ser Ser Thr Gly Ile Gly Lys Lys Gly Gln Gln Pro Ala Lys
20 25 30

Lys Arg Leu Asn Phe Gly Gln Thr Gly Asp Ser Glu Ser Val Pro Asp
35 40 45

Pro Gln Pro Ile Gly Glu Pro Pro Ala Gly Pro Ser Gly Leu Gly Ser
50 55 60

Gly Thr Met Ala Ala Gly Gly Gly Ala Pro Met Ala Asp Asn Asn Glu
65 70 75 80

Gly Ala Asp Gly Val Gly Ser Ser Ser Gly Asn Trp His Cys Asp Ser
85 90 95

Thr Trp Leu Gly Asp Arg Val Ile Thr Thr Ser Thr Arg Thr Trp Ala
100 105 110

Leu Pro Thr Tyr Asn Asn His Leu Tyr Lys Gln Ile Ser Asn Gly Thr
115 120 125

Ser Gly Gly Ser Thr Asn Asp Asn Thr Tyr Phe Gly Tyr Ser Thr Pro
130 135 140

Trp Gly Tyr Phe Asp Phe Asn Arg Phe His Cys His Phe Ser Pro Arg
145 150 155 160

Asp Trp Gln Arg Leu Ile Asn Asn Asn Trp Gly Phe Arg Pro Lys Arg
165 170 175

Leu Asn Phe Lys Leu Phe Asn Ile Gln Val Lys Glu Val Thr Gln Asn
180 185 190

Glu Gly Thr Lys Thr Ile Ala Asn Asn Leu Thr Ser Thr Ile Gln Val
195 200 205

Phe Thr Asp Ser Glu Tyr Gln Leu Pro Tyr Val Leu Gly Ser Ala His
210 215 220

Gln Gly Cys Leu Pro Pro Phe Pro Ala Asp Val Phe Met Ile Pro Gln
225 230 235 240

Tyr Gly Tyr Leu Thr Leu Asn Asn Gly Ser Gln Ala Val Gly Arg Ser
245 250 255

Ser Phe Tyr Cys Leu Glu Tyr Phe Pro Ser Gln Met Leu Arg Thr Gly
260 265 270

Asn Asn Phe Glu Phe Ser Tyr Asn Phe Glu Asp Val Pro Phe His Ser
275 280 285

Ser Tyr Ala His Ser Gln Ser Leu Asp Arg Leu Met Asn Pro Leu Ile
290 295 300

Asp Gln Tyr Leu Tyr Tyr Leu Ser Arg Thr Gln Ser Thr Gly Gly Thr
305 310 315 320

Ala Gly Thr Gln Gln Leu Leu Phe Ser Gln Ala Gly Pro Asn Asn Met
325 330 335

Ser Ala Gln Ala Lys Asn Trp Leu Pro Gly Pro Cys Tyr Arg Gln Gln
340 345 350

Arg Val Ser Thr Thr Leu Ser Gln Asn Asn Asn Ser Asn Phe Ala Trp
355 360 365

Thr Gly Ala Thr Lys Tyr His Leu Asn Gly Arg Asp Ser Leu Val Asn
370 375 380

Pro Gly Val Ala Met Ala Thr His Lys Asp Asp Glu Glu Arg Phe Phe
385 390 395 400

Pro Ser Ser Gly Val Leu Met Phe Gly Lys Gln Gly Ala Gly Lys Asp
405 410 415

Asn Val Asp Tyr Ser Ser Val Met Leu Thr Ser Glu Glu Glu Ile Lys
420 425 430

Thr Thr Asn Pro Val Ala Thr Glu Gln Tyr Gly Val Val Ala Asp Asn
435 440 445

Leu Gln Gln Gln Asn Ala Ala Pro Ile Val Gly Ala Val Asn Ser Gln
450 455 460

Gly Ala Leu Pro Gly Met Val Trp Gln Asn Arg Asp Val Tyr Leu Gln
465 470 475 480

Gly Pro Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro
485 490 495

Ser Pro Leu Met Gly Gly Phe Gly Leu Lys His Pro Pro Pro Gln Ile
500 505 510

Leu Ile Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Thr Phe Asn
515 520 525

Gln Ala Lys Leu Ala Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val
530 535 540

Ser Val Glu Ile Glu Trp Glu Leu Gln Lys Glu Asn Ser Lys Arg Trp
545 550 555 560

Asn Pro Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Thr Asn Val
565 570 575

Asp Phe Ala Val Asn Thr Glu Gly Thr Tyr Ser Glu Pro Arg Pro Ile
580 585 590

Gly Thr Arg Tyr Leu Thr Arg Asn Leu
595 600

<210> 32
<211> 535
<212> PRT
<213> Secuencia Artificial

<220>
<223> Cápside del vector de AAV

<400> 32

Met Ala Ala Gly Gly Gly Ala Pro Met Ala Asp Asn Asn Glu Gly Ala
1 5 10 15

Asp Gly Val Gly Ser Ser Ser Gly Asn Trp His Cys Asp Ser Thr Trp
20 25 30

Leu Gly Asp Arg Val Ile Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro
35 40 45

Thr Tyr Asn Asn His Leu Tyr Lys Gln Ile Ser Asn Gly Thr Ser Gly
50 55 60

Gly Ser Thr Asn Asp Asn Thr Tyr Phe Gly Tyr Ser Thr Pro Trp Gly
65 70 75 80

Tyr Phe Asp Phe Asn Arg Phe His Cys His Phe Ser Pro Arg Asp Trp
85 90 95

Gln Arg Leu Ile Asn Asn Asn Trp Gly Phe Arg Pro Lys Arg Leu Asn
100 105 110

Phe Lys Leu Phe Asn Ile Gln Val Lys Glu Val Thr Gln Asn Glu Gly
115 120 125

Thr Lys Thr Ile Ala Asn Asn Leu Thr Ser Thr Ile Gln Val Phe Thr
130 135 140

Asp Ser Glu Tyr Gln Leu Pro Tyr Val Leu Gly Ser Ala His Gln Gly
145 150 155 160

Cys Leu Pro Pro Phe Pro Ala Asp Val Phe Met Ile Pro Gln Tyr Gly
165 170 175

Tyr Leu Thr Leu Asn Asn Gly Ser Gln Ala Val Gly Arg Ser Ser Phe
180 185 190

Tyr Cys Leu Glu Tyr Phe Pro Ser Gln Met Leu Arg Thr Gly Asn Asn
195 200 205

Phe Glu Phe Ser Tyr Asn Phe Glu Asp Val Pro Phe His Ser Ser Tyr
210 215 220

Ala His Ser Gln Ser Leu Asp Arg Leu Met Asn Pro Leu Ile Asp Gln
225 230 235 240

Tyr Leu Tyr Tyr Leu Ser Arg Thr Gln Ser Thr Gly Gly Thr Ala Gly
245 250 255

Thr Gln Gln Leu Leu Phe Ser Gln Ala Gly Pro Asn Asn Met Ser Ala
260 265 270

Gln Ala Lys Asn Trp Leu Pro Gly Pro Cys Tyr Arg Gln Gln Arg Val
275 280 285

Ser Thr Thr Leu Ser Gln Asn Asn Ser Asn Phe Ala Trp Thr Gly
290 295 300

Ala Thr Lys Tyr His Leu Asn Gly Arg Asp Ser Leu Val Asn Pro Gly
305 310 315 320

Val Ala Met Ala Thr His Lys Asp Asp Glu Glu Arg Phe Phe Pro Ser
325 330 335

Ser Gly Val Leu Met Phe Gly Lys Gln Gly Ala Gly Lys Asp Asn Val
340 345 350

Asp Tyr Ser Ser Val Met Leu Thr Ser Glu Glu Glu Ile Lys Thr Thr
355 360 365

Asn Pro Val Ala Thr Glu Gln Tyr Gly Val Val Ala Asp Asn Leu Gln
370 375 380

Gln Gln Asn Ala Ala Pro Ile Val Gly Ala Val Asn Ser Gln Gly Ala
385 390 395 400

Leu Pro Gly Met Val Trp Gln Asn Arg Asp Val Tyr Leu Gln Gly Pro
405 410 415

Ile Trp Ala Lys Ile Pro His Thr Asp Gly Asn Phe His Pro Ser Pro
420 425 430

Leu Met Gly Gly Phe Gly Leu Lys His Pro Pro Pro Gln Ile Leu Ile
435 440 445

Lys Asn Thr Pro Val Pro Ala Asp Pro Pro Thr Thr Phe Asn Gln Ala
450 455 460

Lys Leu Ala Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Ser Val
465 470 475 480

Glu Ile Glu Trp Glu Leu Gln Lys Glu Asn Ser Lys Arg Trp Asn Pro
485 490 495

Glu Ile Gln Tyr Thr Ser Asn Tyr Tyr Lys Ser Thr Asn Val Asp Phe
500 505 510

Ala Val Asn Thr Glu Gly Thr Tyr Ser Glu Pro Arg Pro Ile Gly Thr
515 520 525

Arg Tyr Leu Thr Arg Asn Leu
530 535

<210> 33
<211> 736
<212> PRT
<213> Secuencia Artificial

<220>
<223> Cápside del vector de AAV

<400> 33

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Gln Pro Gly Ala Pro Lys Pro
20 25 30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Lys Glu Asp Thr Ser Phe Gly Gly
100 105 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Asp Gln Ser Pro Gln Glu Pro Asp Ser Ser Ser Gly Val Gly
145 150 155 160

Lys Ser Gly Lys Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln Thr
165 170 175

Gly Asp Ser Glu Ser Val Pro Asp Pro Gln Pro Leu Gly Glu Pro Pro
180 185 190

Ala Ala Pro Thr Ser Leu Gly Ser Asn Thr Met Ala Ser Gly Gly Gly
195 200 205

Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn Ser
210 215 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225 230 235 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
245 250 255

Tyr Lys Gln Ile Ser Ser Gln Ser Gly Ala Ser Asn Asp Asn His Tyr
260 265 270

Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe His
275 280 285

Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn Asn Trp
290 295 300

Gly Phe Arg Pro Lys Lys Leu Ser Phe Lys Leu Phe Asn Ile Gln Val
305 310 315 320

Lys Glu Val Thr Gln Asn Asp Gly Thr Thr Thr Ile Ala Asn Asn Leu
325 330 335

Thr Ser Thr Val Gln Val Phe Thr Asp Ser Glu Tyr Gln Leu Pro Tyr
340 345 350

Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe Pro Ala Asp
355 360 365

Val Phe Met Val Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asn Gly Ser
370 375 380

Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe Pro Ser
385 390 395 400

Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Thr Phe Glu
405 410 415

Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu Asp Arg
420 425 430

Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Asn Arg Thr
435 440 445

Gln Gly Thr Thr Ser Gly Thr Thr Asn Gln Ser Arg Leu Leu Phe Ser
450 455 460

Gln Ala Gly Pro Gln Ser Met Ser Leu Gln Ala Arg Asn Trp Leu Pro
465 470 475 480

Gly Pro Cys Tyr Arg Gln Gln Arg Leu Ser Lys Thr Ala Asn Asp Asn
485 490 495

Asn Asn Ser Asn Phe Pro Trp Thr Ala Ala Ser Lys Tyr His Leu Asn
500 505 510

Gly Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys
515 520 525

Asp Asp Glu Glu Lys Phe Phe Pro Met His Gly Asn Leu Ile Phe Gly
530 535 540

Lys Glu Gly Thr Thr Ala Ser Asn Ala Glu Leu Asp Asn Val Met Ile
545 550 555 560

Thr Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln
565 570 575

Tyr Gly Thr Val Ala Asn Asn Leu Gln Ser Ser Asn Thr Ala Pro Thr
580 585 590

Thr Arg Thr Val Asn Asp Gln Gly Ala Leu Pro Gly Met Val Trp Gln
595 600 605

Asp Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His
610 615 620

Thr Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu
625 630 635 640

Lys His Pro Pro Pro Gln Ile Met Ile Lys Asn Thr Pro Val Pro Ala
645 650 655

Asn Pro Pro Thr Thr Phe Ser Pro Ala Lys Phe Ala Ser Phe Ile Thr
660 665 670

Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln
675 680 685

Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn
690 695 700

Tyr Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val
705 710 715 720

Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Pro Leu
725 730 735